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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/689,626	10/22/2003	Genc L. Cangiani	0918.0175C	4036
27896	7590 06/09/2004		EXAMINER	
EDELL, SHAPIRO, FINNAN & LYTLE, LLC			PHAN, DAO LINDA	
1901 RESEARCH BOULEVARD SUITE 400			ART UNIT	PAPER NUMBER
ROCKVILLE, MD 20850			3662	-

DATE MAILED: 06/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

Paper No(s)/Mail Date \_

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

6) Other:

5) Notice of Informal Patent Application (PTO-152)

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Purdy et al (US 2003/0095068).

Purdy et al teach a method of transmitting a plurality of signals from a common antenna including generating (fig. 1) a first signal for transmission via a first transmit beam, generating (fig. 1) a second signal for transmission via a second transmit beam, forming (p. 3, paragraph 0031) a composite signal that includes the first and second signals, wherein the phase of the composite signal accounts for signal modulation and beam forming characteristics of the first and second signals (p. 2, paragraph 0023), supplying (fig. 2) the composite signal to the common antenna, and transmitting (fig. 1) the composite signal from the common antenna.

With regard to claims 14-27, Purdy et al further teach an apparatus for transmitting a plurality of signals including a phased array antenna 16 comprising an array of antenna elements, a transmitter system (fig. 1) that receives a first signal for transmission via a first transmit beam and a second signal for transmission via a second transmit beam, the transmitter system forming a plurality of composite signals and

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supplying the plurality of composite signals to respective antenna elements of the phased array antenna, wherein phases of the composite signals are a function of signal modulations of the first and second signals and phases of the respective antenna elements required to form the first and second transmit beams (p. 2, paragraph 0023), wherein the phased array antenna transmits (fig. 1) the first signal via the first transmit beam and transmits (fig. 1) the second signal via the second transmit beam.

3. Claims 1-27 are rejected under 35 U.S.C. 102(b) as being anticipated by King (Pat. No. 3,872,477).

King teaches an apparatus and a method of transmitting a plurality of signals from a common antenna including generating (col 9, lines 58-62) a first signal for transmission via a first transmit beam, generating (col 9, lines 58-62) a second signal for transmission via a second transmit beam, forming (col 1, lines 42-48)) a composite signal that includes the first and second signals, wherein the phase of the composite signal accounts for signal modulation and beam forming characteristics of the first and second signals (col 1, lines 50+), supplying (col 5, lines 58-67) the composite signal to the common antenna, and transmitting (col 5, lines 58-67; col 9, lines 58-62) the composite signal from the common antenna.

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao L. Phan whose telephone number is (703)306-4167. The examiner can normally be reached on M-F 9:00-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tarcza Thomas can be reached on (703)306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAO PHAN PATENT EXAMINER